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PTO/SB/21 (08-00)

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/467,174 101647,174
Filing Date	August 25, 2003
First Named Inventor	Zheng Zhang
Group Art Unit	1824
Examiner Name	N/A
Attorney Docket Number	571-872

Total Number of Pages in This Submission

6

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
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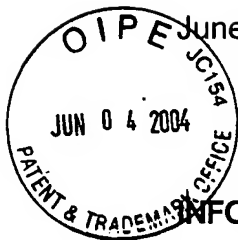
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Firm or Individual name	BERESKIN & PARR Patricia Power, Reg. No. 51,379
Signature	<i>P. Power</i>
Date	June 2, 2004

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June 2, 2004

Patricia Power B.Sc., Ph.D. (Chem.)  
416 957 1683 ppower@bereskinparr.com

Your Reference: 10/647,174  
Our Reference: 571-872

**INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**Re: U.S. Regular Patent Application No. 10/647,174**  
**Entitled: METHODS AND COMPOUNDS FOR CONTROLLING THE MORPHOLOGY AND SHRINKAGE OF SILICA DERIVED FROM POLYOL-MODIFIED SILANES**  
**Inventors: Zheng Zhang, Yang Chen, John D. Brennan and Michael A. Brook**

In accordance with 37 CFR 1.97 and 1.98, and in recognition of the duty of disclosure set forth in 37 CFR 1.56, Applicants hereby submit an Information Disclosure Statement on Form PTO-1449 containing a listing of patents and other publications of which Applicant is aware. Applicants are also submitting the references listed on the Information Disclosure Statement.

All of the patents and publications submitted herewith are in the English language. Accordingly a concise explanation of the relevance of the documents is not required.

The Examiner is requested to indicate consideration of these documents by initialing the appropriate column.

Applicants reserve the right to contest the applicability of any of these documents as prior art against the subject application. If the Examiner has any questions concerning this Information Disclosure Statement, he/she is requested to contact the undersigned. Entry of the enclosed Information Disclosure Statement is believed to be in order and is respectfully requested.

*Please send all correspondence to the Mississauga office:*

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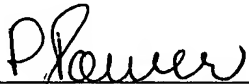
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Waterloo, Ontario, Canada N2L 3V3  
Tel: 519.783.3210 Fax: 519.783.3211

This Information Disclosure Statement is being filed before the issuance of a first official action, and therefore no fees are required. However, please charge our deposit account No. 02-2095 if such a fee is required.

Respectfully submitted,

**ZHENG ZHANG et al.**

A handwritten signature in cursive script, appearing to read "P. Power", is written over a horizontal line.

Patricia Power

Registration No. 51,379

Dated: June 2, 2004

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PTO/SB/08a (08-03)

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/647,174
				Filing Date	August 25, 2003
				First Named Inventor	Zheng Zhang
				Art Unit	1824
				Examiner Name	N/A
Sheet	2	of	2	Attorney Docket Number	571-872

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1.	CABRERA, K. et al., "SilicaROD™ - A new challenge in fast high-performance liquid chromatography separations", Trends in Analytical Chemistry, 1998, pp. 50-53, Vol. 17, No.1.	
	2.	TANAKA, N. et al., "Monolithic Silica Columns for HPLC, Micro-HPLC, and CEC", J. High Resol. Chromatogr., 2000, pp. 111-116, Vol. 23, No. 1.	
	3.	ISHIZUKA, N. et al., "Preparation and Chromatographic Application of Macroporous Silicate in a Capillary", Journal of Sol-Gel Science and Technology, 2000, pp. 371-375, Vol. 19.	
	4.	MOTOKAWA, M. et al., "Monolithic silica columns with various skeleton sizes and through-pore sizes for capillary liquid chromatography", Journal of Chromatography A, 2002, pp. 53-63, Vol. 961.	
	5.	ISHIZUKA, N. et al., "Chromatographic characterization of macroporous monolithic silica prepared via sol-gel process", Colloids and Surfaces - A: Physicochemical and Engineering Aspects, 187-188, 2001, pp. 273-279.	
	6.	KANG, J. et al., "A silica monolithic column prepared by the sol-gel process for enantiomeric separation by capillary electrochromatography", Electrophoresis, 2002, pp. 1116-1120, Vol. 23.	
	7.	KIKUTA, K. et al., "Synthesis of Transparent Magadiite-Silica Hybrid Monoliths", Chem. Mater., 2002, pp. 3123-3127, Vol. 14.	
	8.	LEINWEBER, F. C. et al., "Characterization of Silica-Based Monoliths with Bimodal Pore Size Distribution", Anal. Chem., 2002, pp. 2470-2477, Vol. 74.	
	9.	NAKANISHI, K. et al., "Macropore Morphology Control of Silica Gel by Spinodal Decomposition", Chemical Processing of Advanced Materials, 1992, pp. 29-41	
	10.	NAKANISHI, K. et al., "Macropore Structure Design of Sol-Gel Derived Silica by Spinodal Decomposition", Porous Materials, 1993, pp. 51-60.	
	11.	GILL, I. et al., "Encapsulation of Biologicals within Silicate, Siloxane, and Hybrid Sol-Gel Polymers: An Efficient and Generic Approach", J. Am. Chem. Soc., 1998, pp. 8587-8598, Vol. 120.	
	12.	Gill, I., "Bio-doped Nanocomposite Polymers: Sol-Gel Bioencapsulates", Chem. Mater., 2001, pp. 3404-3421, Vol. 13.	
	13.	NAKANISHI, K. et al., "Synthesis of silica gel by polymer-mixed sol-gel method", Chem. Abstracts, AN. 118:259529, Shinsozai (1992), pp. 44-49, Vol. 3, No. 11.	
	14.	TANAKA, N. et al., "Octadecylsilylated porous silica rod for reversed-phase liquid chromatography", Chem. Abstracts, AN. 121:92756, Kuromatogurafi (1993), pp. 50-51, Vol. 14, No. 5.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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